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## ENGINEERING CHANGE REQUEST

### ECR 352

<b>Date Opened:</b>	12/3/21 11:47 AM	<b>Requested By:</b>	Drouin, Steven
<b>Type:</b>	Drawing/Pattern Change	<b>Responsible Engineer:</b>	Provencal, Chris
<b>Priority:</b>	Medium	<b>Requester*:</b>	Provencal, Chris
<b>Status:</b>	Quality Disposition	<b>DE Approver*:</b>	Provencal, Chris
<b>Reason:</b>		<b>ECR Lead*:</b>	Drouin, Steven
<b>Expense:</b>	2000	<b>ECR Specialist:</b>	Drouin, Steven
<b>Target Date:</b>			
<b>Execution Date:</b>			
<b>ECR Approval No:</b>			
<b>RE (R&amp;D):</b>		<b>**BRIEF DESCRIPTION**:</b>	<b>17-4 PH Material Specification update</b>
<b>Status Note:</b>		<b>DESCRIPTION/ ADR CONTENT**:</b>	Need to update M-drawing for 17-4 for Hardness specification, Dart received annealed material because of the call up on the M-Drawing. Engineering will need to be more specific for what type of condition it will need. Please RED TAG ALL MATERIAL bellow (see Inventory) D6104 M17-4-S M17-4-B M17-4-R

### CUSTOMER APPROVALS

Customer	Customer Visible	Customer Approval Required	*	Customer Approved
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### PARTS

Part No	Rev	Part Status	Name	Type	Customer Part	Special Comments	Documents
M17-4-B0.250X4.000		Under Review	17-4 Bar 0.250" X 4.000"	Raw Mat - Metal			
M17-4-B0.375X1.000		Under Review	17-4 SS Bar .375 x 1.00	Raw Mat - Metal			
M17-4-B0.500X2.000		Under Review	17-4 SS Bar .500 x 2.00	Raw Mat - Metal			
M17-4-B0.750X1.250		Under Review	M174B0.750X1.250	Raw Mat - Metal			
M17-4-B0.750X1.500		Under Review	M174B0.750X01.500	Raw Material			
M17-4-B1.000X2.000		Under Review	17-4 SS Bar 1.00 x 2.00	Raw Mat - Metal			
M17-4-B1.250X2.000		Under Review	17-4 SS Bar 1.250 x 2.00	Raw Mat - Metal			
M17-4-B1.500X2.250		Under Review	17-4 SS Bar 1.50 X2.250	Raw Mat - Metal			
M17-4-B2.000X1.500		Under Review	17-4 SS Bar 2.00 x 1.500	Raw Mat - Metal			
M17-4-B2.500X1.250		Under Review	17-4 SS Bar 2.500 x 1.250	Raw Mat - Metal			
M17-4-CONDA-R0.750		Under Review	17-4 SS Round Bar (Bar A Condition)	Raw Material			
M17-4-CONDA-S22GA		Under Review	17-4 SS Sheet 0.3125 (AMS 5604 or ASTM 693)	Raw Material			
M17-4-H1025-		Under	17-4 -H1025 Round Bar	Raw Mat			

R1.375	Review	1.375"	- Metal			
M17-4-H1025-R3.250	Under Review	17-4 SS Round Bar (H1025 Condition) Cut to size: 20.500"	Raw Mat - Metal			
M17-4-H1025-S12GA	Under Review	17-4 SS Sheet 0.109375 (AMS 5604 or ASTM 693)	Raw Mat - Metal			
M17-4-H1025-S14GA	Under Review	17-4 H1025 SS Sheet 14 Gauge 0.073 - 0.083	Raw Mat - Metal			
M17-4-H1075-R2.500	Under Review	17-4 H1075 Round Bar 2.500	Raw Material			
M17-4-H1075-R3.000	Under Review	17-4 H1075 Round Bar 3.000	Raw Material			
M17-4-H1150-R0.250	Under Review	Stainless Steel Bar	Raw Material			
M17-4-H1150-R0.500	Under Review	17-4 SS Round Bar H1150 0.500" dia.	Raw Material			
M17-4-H1150-R0.625	Under Review	17-4 SS Round Bar H1150 0.625" dia.	Raw Mat - Metal			
M17-4-H1150-R0.750	Under Review	17-4 SS Round Bar H1150 0.75" dia.	Raw Mat - Metal			
M17-4-H1150-R1.000	Under Review	17-4 SS Round Bar 1.000"	Raw Mat - Metal			
M17-4-H1150-R1.500	Under Review	17-4 SS Round Bar 1.500"	Raw Mat - Metal			
M17-4-H1150-R2.000	Under Review	17-4 SS Round Bar 2.000"	Raw Mat - Metal			
M17-4-H1150-R2.375	Under Review	17-4 SS H1150 Round Bar 2.375"	Raw Material			
M17-4-H1150-R2.500	Under Review	17-4 SS H1150 Round Bar 2.500"	Raw Mat - Metal			
M17-4-H1150-R2.750	Under Review	17-4 SS H1150 Round Bar 2.750"	Raw Mat - Metal			
M17-4-H1150-R3.000	Under Review	17-4 H1150 Round Bar 3.000"	Raw Mat - Metal			
M17-4-H1150-R3.500	Under Review	17-4 SS H1150 Round Bar 3.500"	Raw Mat - Metal			
M17-4-H1150-R3.750	Under Review	17-4 SS H1150 Round Bar 3.750"	Raw Mat - Metal			
M17-4-H1150-R4.000	Under Review	17-4 SS H1150 Round Bar 4.000"	Raw Mat - Metal			
M17-4-H900-B0.250X4.000	Under Review	17-4 SS H900 Bar 0.250" X 04.000"	Raw Mat - Metal			
M17-4-H900-B0.375X3.000	Under Review	17-4 H900 Bar, 0.375" Thick X 3.000" Wide X 24.000" Long	Raw Mat - Metal			
M17-4-H900-B0.750X1.250	Under Review	17-4 SS H900 Bar 0.750" X 1.250"	Raw Mat - Metal			
M17-4-H900-B0.750X3.500	Under Review	17-4 SS H900 Bar 0.750" X 03.500"	Raw Mat - Metal			
M17-4-H900-B1.000X1.250	Under Review	17-4 SS Bar, Condition H900, 1.000" Thick X 1.250" Wide	Raw Mat - Metal			
M17-4-H900-B1.000X1.500	Under Review	17-4 SS H900 Bar 1.000" X 01.500"	Raw Mat - Metal			
M17-4-H900-B1.000X2.500	Under Review	17-4 SS H900 Bar 1.000" X 2.500"	Raw Mat - Metal			
M17-4-H900-B1.250X1.250	Under Review	17-4 SS Bar, Condition H900, 1.250" Thick X 1.250" Wide	Raw Mat - Metal			
M17-4-H900-B2.250X3.000	Under Review	17-4 SS H900 Bar 2.250" X 03.000"	Raw Mat - Metal			
M17-4-H900-B2.500X2.500	Under Review	17-4 SS H900 Bar 2.500" X 2.500"	Raw Material			
M17-4-H900-	Under	17-4 SS Bar H900 3.937" x	Raw Mat			

B3.937X4.750	Review	4.750"	- Metal			
M17-4-H900-R0.250	Under Review	17-4 SS H900 Round Bar 0.250"	Raw Mat - Metal			
M17-4-H900-R0.375	Under Review	17-4 SS H900 Round Bar 0.375"	Raw Mat - Metal			
M17-4-H900-R0.500	Under Review	17-4 SS H900 Round Bar 0.500"	Raw Mat - Metal			
M17-4-H900-R0.625	Under Review	17-4 SS H900 Round Bar 0.625"	Raw Mat - Metal			
M17-4-H900-R0.750	Under Review	17-4 SS H900 Round Bar 0.750"	Raw Mat - Metal			
M17-4-H900-R1.000	Under Review	17-4 SS H900 Round Bar 1.00"	Raw Mat - Metal			
M17-4-H900-R1.125	Under Review	17-4 SS H900 Round Bar 1.125"	Raw Mat - Metal			
M17-4-H900-R1.375	Under Review	17-4 SS H900 Round Bar 1.375"	Raw Mat - Metal			
M17-4-H900-R1.500	Under Review	17-4 SS H900 Round Bar 1.500"	Raw Mat - Metal			
M17-4-H900-R2.000	Under Review	17-4 SS H900 Round Bar 2.000"	Raw Mat - Metal			
M17-4-H900-R2.250	Under Review	17-4 SS Round Bar 2.250 Dia.	Raw Mat - Metal			
M17-4-H900-R2.500	Under Review	17-4 SS H900 Round Bar 2.500"	Raw Mat - Metal			
M17-4-H900-R2.750	Under Review	17-4 SS H900 Round Bar 2.750"	Raw Mat - Metal			
M17-4-H900-R3.750	Under Review	17-4 SS Round Bar Ø3.75"	Raw Mat - Metal			
M17-4-H900-S14GA	Under Review	17-4 SS Sheet 0.078125 (AMS 5604 or ASTM 693)	Raw Mat - Metal			
M17-4-R0.375	Under Review	17-4 SS Round Bar .375"	Raw Mat - Metal			
M17-4-R0.750	Under Review	17-4 Round Bar .750	Raw Mat - Metal			
M17-4-R1.000	Under Review	17-4PH SS Round Bar 1.00	Raw Mat - Metal			
M17-4-R1.375	Under Review	M174R1.375	Raw Material			
M17-4-R1.500	Under Review	M174R1.500	Raw Material			
M17-4-R1.750	Under Review	M174R1.750	Raw Material			
M17-4-R2.000	Under Review	M174R2.000	Raw Mat - Metal			
M17-4-R3.000	Under Review	M174R3.000	Raw Mat - Metal			
M17-4-R4.000	Under Review	17-4 SS Round Bar	Raw Material			
M17-4-S11GA	Under Review	17-4 SS Sheet 0.125 (AMS 5604 or ASTM 693)	Raw Mat - Metal			
M17-4-S12GA	Under Review	17-4 SS Sheet 0.099 - 0.114	Raw Mat - Metal			
M17-4H1150R2.000	Under Review	TBD	Raw Material			
M17-4H900-B0.750X0.750	Under Review	17-4 SS BAR 0.750" X 0.750"	Raw Mat - Metal			
M17-4PHR1.500	Under Review	TBD	Raw Material			
<b>INVENTORY DISPOSITION</b>						
<b>Part No Revision</b>		<b>Material No</b>	<b>Current Inventory Qty</b>	<b>Purchasing On-Order Qty</b>	<b>Qty Scheduled for Production</b>	

M17-4-B0.250X4.000		6.5 Quarantine	0 *	0 Stop Current Production
M17-4-B0.375X1.000		0 Quarantine	0 *	0 *
M17-4-B0.500X2.000		5.003Quarantine	0 *	0 *
M17-4-B0.750X1.250		0 Quarantine	0 *	0 *
M17-4-B0.750X1.500		0 Quarantine	0 *	0 *
M17-4-B1.000X2.000		7.504Quarantine	0 *	0 *
M17-4-B1.250X2.000		11.597Quarantine	0 *	0 *
M17-4-B1.500X2.250		9 Quarantine	0 *	0 *
M17-4-B2.000X1.500		0.833Quarantine	0 *	0 *
M17-4-B2.500X1.250		13.6 Quarantine	0 *	0 *
M17-4-CONDA-R0.750		0 Use as is	0 *	0 *
M17-4-CONDA-S22GA		0 Quarantine	0 *	0 *
M17-4-H1025-R1.375		12.666Quarantine	0 *	0 *
M17-4-H1025-R3.250		0 Quarantine	0 *	0 *
M17-4-H1025-S12GA		0 Quarantine	0 *	0 *
M17-4-H1025-S14GA		6.9804Quarantine	0 *	0 *
M17-4-H1075-R2.500		0 Quarantine	0 *	0 *
M17-4-H1075-R3.000		0 Quarantine	0 *	0 *
M17-4-H1150-R0.250		0 Quarantine	12 Put POs on Hold	0 *
M17-4-H1150-R0.500		8.7 Quarantine	12 Put POs on Hold	0 *
M17-4-H1150-R0.625		10.422Quarantine	0 *	0 *
M17-4-H1150-R0.750		9.635Quarantine	0 *	0 *
M17-4-H1150-R1.000		15.409Quarantine	0 *	0 *
M17-4-H1150-R1.500		8.583Quarantine	0 *	0 *
M17-4-H1150-R2.000		2.716Quarantine	12 Put POs on Hold	0 *
M17-4-H1150-R2.375		0 Quarantine	0 *	0 *
M17-4-H1150-R2.500		1.572Quarantine	0 *	0 *
M17-4-H1150-R2.750		5.86 Quarantine	0 *	0 *
M17-4-H1150-R3.000		7.145Quarantine	0 *	0 *
M17-4-H1150-R3.500		4.0371Quarantine	0 *	0 *
M17-4-H1150-R3.750		6 Quarantine	0 *	0 *
M17-4-H1150-R4.000		8.888Quarantine	0 *	0 *
M17-4-H900-B0.250X4.000		0.694Quarantine	24 Put POs on Hold	0 *
M17-4-H900-B0.375X3.000		2 Quarantine	0 *	0 *
M17-4-H900-B0.750X1.250		12.298Quarantine	0 *	0 *
M17-4-H900-B0.750X3.500		13.25Quarantine	0 *	0 *
M17-4-H900-B1.000X1.250		12.33Quarantine	0 *	0 *
M17-4-H900-B1.000X1.500		0 Quarantine	0 *	0 *
M17-4-H900-B1.000X2.500		12.5 Quarantine	0 *	0 *
M17-4-H900-B1.250X1.250		5.3 Quarantine	0 *	0 *
M17-4-H900-B2.250X3.000		0.76 Quarantine	0 *	0 *
M17-4-H900-B2.500X2.500		0 Quarantine	0 *	0 *
M17-4-H900-B3.937X4.750		7.4 Quarantine	0 *	0 *
M17-4-H900-R0.250		10.625Quarantine	0 *	0 *
M17-4-H900-R0.375		1.954Quarantine	0 *	0 *
M17-4-H900-R0.500		2.416Quarantine	0 *	0 *
M17-4-H900-R0.625		11.104Quarantine	0 *	0 *
M17-4-H900-R0.750		2.389Quarantine	0 *	0 *
M17-4-H900-R1.000		14.375Quarantine	0 *	0 *
M17-4-H900-R1.125		11.416Quarantine	0 *	0 *
M17-4-H900-R1.375		17.9 Quarantine	0 *	0 *
M17-4-H900-R1.500		47.432Quarantine	0 *	0 *
M17-4-H900-R2.000		6.416Quarantine	0 *	0 *
M17-4-H900-R2.250		11.25Quarantine	0 *	0 *

M17-4-H900-R2.500		8.916Quarantine	0 *	0 *
M17-4-H900-R2.750		12.122Quarantine	0 *	0 *
M17-4-H900-R3.750		4.125Quarantine	0 *	0 *
M17-4-H900-S14GA		0 Quarantine	0 *	0 *
M17-4-R0.375		10.5 Quarantine	0 *	0 *
M17-4-R0.750		6.406Quarantine	36 Put POs on Hold	0 *
M17-4-R1.000		0 Quarantine	0 *	0 *
M17-4-R1.375		0 Quarantine	0 *	0 *
M17-4-R1.500		0 Quarantine	0 *	0 *
M17-4-R1.750		0 Quarantine	0 *	0 *
M17-4-R2.000		2.104Quarantine	0 *	0 *
M17-4-R3.000		0 Quarantine	0 *	0 *
M17-4-R4.000		0 Quarantine	0 *	0 *
M17-4-S11GA		43.438Quarantine	24 Put POs on Hold	0 *
M17-4-S12GA		0 Quarantine	0 *	0 *
M17-4H1150R2.000		0 Quarantine	0 *	0 *
M17-4H900-B0.750X0.750		0 Quarantine	0 *	0 *
M17-4PHR1.500		0 Quarantine	0 *	0 *

**EFFECTS**

Effect Group	Effects
1. Quarantine?	Immediate quarantine required
2. ECR Lead Assessment - Impacted Docs & Output	Drawing Change Required (D6104 M17-4-S M17-4-B M17-4-R)
3. ECR Lead Assessment - Status During ECR	UR - Full Under Review (D6104 M17-4-S M17-4-B M17-4-R)
4. Production Type	In-house production
5A. ECR Lead Assessment - MINOR Changes	Correction of drawing errors (D6104 M17-4-S M17-4-B M17-4-R)
7. Final Impacts	Parts Must Comply
9. Sustaining Cost Grouping	Poor Quality (D6104 M17-4-S M17-4-B M17-4-R)